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CONSTRUCTION

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HINTS

UNITED STATES DEPARTMENT OF AGRICULTURE, FOREST SERVICE
WASHINGTON, D. C.

Vol. 7

November 1941

No. 6

This number consists of an index of all issues of Construction Hints through September 1941, including those listed in the index of August 27, 1938.

It is suggested that this cover page be detached and the index be placed in the front of your file of copies.

E. S. MASSIE, Jr.,
Editor.

I N D E X Construction Hints

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Abney adjustment, simplified - - - -	R-4	1	10	Sept. 21, 1935
Aerial film light table - - - - -	R-2	6	2	February 1940
Air brake, alcohol evaporator - - -	R-5	4	4	Feb. 26, 1938
Air brake, service chart - - - - -		4	4	Feb. 26, 1938
Air pipe and screen, tractor - - - -	R-9	4	6	Mar. 26, 1938
Alarm, rain - - - - -	R-5	3	13	Sept. 11, 1937
Alcohol drip, compressor - - - - -	R-7	3	12	Aug. 28, 1937
Alkali, effect on tile - - - - -		2	10	May 16, 1936
Aluminum substitutes - - - - -	W.O.	7	5	Sept. 1941
Anchoring cans on trucks - - - - -	R-9	5	2	February 1939
Area calculation - - - - -	R-8	1	12	Oct. 19, 1935
Arrester, spark, tent stove - - - -	R-6	3	9	July 9, 1937
Assembly, universal joint - - - - -		3	4	Feb. 20, 1937
Automatic truck jack - - - - -	R-6	1	11	Oct. 5, 1935
Automobile trestle - - - - -	R-9	3	7	Apr. 3, 1937
Axe box - - - - -	R-9	3	5	Mar. 6, 1937
Axe box, individual - - - - -	R-1	2	6	Mar. 21, 1936
Axe guard - - - - -	R-5	6	7	July 1940
Axe handle extractor - - - - -	R-9	3	8	Apr. 17, 1937
Axe handle extractor - - - - -	R-9	3	12	Aug. 28, 1937
Axe handle remover - - - - -	R-9	5	3	May 1939
Axle protection, compressor - - - -	R-7	1	7	Aug. 10, 1935
Back filler caster - - - - -	R-5	3	12	Aug. 28, 1937
Bark peeler - - - - -	R-2	2	8	Apr. 18, 1936
Barrel, sand, self-spilling - - - -	R-7	4	5	March 12, 1938
Barrel sling knot, horizontal - - -		1	6	July 27, 1935
Barrel sling knot, vertical - - - -		1	6	July 27, 1935
Barrel top - - - - -	R-7	4	5	Mar. 12, 1938
Barrier, stock, pole type - - - - SS	FES	5	2	February 1939
Battery box - - - - -	R-8	3	9	July 9, 1937
Battery charging unit - - - - -	R-7	4	8	Apr. 23, 1938
Battery support bracket - 1940 Ford -	CCC	7	4	July 1941
Bearing housings, cleaning - - - - -	W.O.	2	10	May 16, 1936
Bearings, front wheel, 1939 Dodge -	W.O.	5	9	November 1939
Belt holder, chaining pins - - - -	R-9	3	6	Mar. 20, 1937
Bench grinders, guard - - - - -	R-8	4	7	Apr. 9, 1938
Bench work - - - - -		3	12	Aug. 28, 1937
Bendix air brake - - - - -		4	4	Feb. 26, 1938
Bimetallic clutch facings - - - - -	R-5	7	1	January 1941
Blacksmith shop trolley - - - - -	R-7	2	23	Dec. 12, 1936
Blackwall hitch knot - - - - -		1	6	July 27, 1935
Blasting boulders - - - - -	R-5	1	11	Oct. 5, 1935
Blasting cap magazine - - - - -	R-9	6	11	December 1940
Blasting machine lock - - - - -	R-8	2	24	Dec. 26, 1936

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Blasting machine lock - - - - -	R-1	4	9	May 14, 1938
Blasting machine, safety - - - - -	R-7	2	24	Dec. 26, 1936
Blasting wire reel - - - - -	R-7	3	8	Apr. 17, 1937
Blow torch for straightening handles-	R-5	3	1	Jan. 9, 1937
Blue print rack - - - - -	R-7	3	2	Jan. 23, 1937
Board measure - - - - -		1	8	Aug. 24, 1935
Bodies, panel, dust proofing - - - -	R-8	3	10	July 23, 1937
Body cover, pickup - - - - -	R-5	3	17	Nov. 13, 1937
Body cover, pickup - - - - -	R-9	3	20	Dec. 25, 1937
Bolt hole marking tool - - - - -	R-5	3	19	Dec. 11, 1937
Bolting, concealed, for sign placques	R-3	5	4	June 1939
Bonding concrete - - - - -	R-5	1	11	Oct. 5, 1935
Boom, swing, for safety - - - - -		5	4	June 1939
Boom, tractor - - - - -	R-6	3	18	Nov. 27, 1937
Boulder blasting - - - - -	R-5	1	11	Oct. 5, 1935
Bow, collapsible, for pick-up truck -	SCS	5	7	Sept. 1939
Bow design, stake truck cover - - - -	R-6	7	1	Jan. 1941
Bowline knot - - - - -		1	5	July 15, 1935
Bowline knot, running - - - - -		1	5	July 15, 1935
Bows, truck frame - - - - -	R-6	4	1	Jan. 8, 1938
Box, battery - - - - -	R-8	3	9	July 9, 1937
Box, fire hose - - - - -	R-1	4	2	Jan. 22, 1938
Box, fire tool; rack for - - - - -	R-9	3	10	July 23, 1937
Box, gill net - - - - -	R-9	3	17	Nov. 13, 1937
Box, magazine, portable - - - - -	R-8	2	19	Oct. 17, 1936
Brace for 1935 Chevrolet stake - - - -	R-9	6	3	March 1940
Brace, running board, Reo truck - - - -	R-7	3	14	Sept. 25, 1937
Bracket, 1940 Ford truck - - - - -	CCC	7	4	July 1941
Bracket, box-type, for tail light - - -	R-9	4	17	Sept. 10, 1938
Bracket, brace, cylinder - - - - -	R-4	2	22	Nov. 28, 1936
Bracket, Chevrolet windshield - - - -		1	9	Sept. 7, 1935
Brake, air, alcohol evaporator - - - -	R-5	4	4	Feb. 26, 1938
Brake, air, service chart - - - - -		4	4	Feb. 26, 1938
Brake linings - - - - - (Bur. Stand.)		5	7	Sept. 1939
Brake linings, adapting to brakes (Bur. Stand.)		5	9	Nov. 1939
Brakes, General Motors trucks - - - -	R-5	1	11	Oct. 5, 1935
Branding irons - - - - -	R-9	2	22	Nov. 28, 1936
Breakage in hose lines - - - - -	R-8	2	10	May 16, 1936
Broken shaft, Caterpillar - - - - -	R-6	2	1	Jan. 11, 1936
Brush buster, fire line - - - - -	R-6	3	3	Feb. 6, 1937
Brushes, paint, care of - - - - -	R-8	3	15	Oct. 9, 1937
Buck and pole fence gage - - - - -	R-2	1	12	Oct. 9, 1935
Buildings, frame, foundation walls - -	W.O.	5	9	Nov. 1939
Buildings, plan study - - - - -	W.O.	7	4	July 1941
Bumper guard for trailbuilder - - - -	R-7	7	3	May 1941
Bumper, rail, trucks - - - - -	R-6	3	10	July 23, 1937
Bumper, rock chute - - - - -	R-6	3	10	July 23, 1937
Burns, creosote, treating - - - - -	R-8	1	9	Sept. 9, 1935
Bushings and pins, tractor - - - - -	R-8	2	2	Jan. 25, 1936

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Cab for tractor snowplows - - - - -	R-7	3	12	Aug. 28, 1937
Cabinet removable, for tool house - -	R-9	6	1	January 1940
Cable, clamp and hanger - - - - -	R-5	3	16	Oct. 23, 1937
Cable, towing - - - - -	R-2	2	8	Apr. 18, 1936
Cache, shelter, tree - - - - -	R-5	3	16	Apr. 23, 1937
Calendar, 1936 - - - - -	W.O.	1	17	Dec. 28, 1935
Calendar, 1937 - - - - -	W.O.	2	24	Dec. 26, 1936
Calendar, 1938-1939 - - - - -	W.O.	4	1	Jan. 8, 1938
Can, paint, for brushes - - - - -	R-8	3	15	Oct. 9, 1937
Can, water measuring - - - - -	SCS	3	10	July 23, 1937
Canvas drier - - - - -	SCS	3	10	July 23, 1937
Canvas drier - - - - -	R-7	7	3	May 1941
Capacity of drums, rope - - - - -		1	8	Aug. 24, 1935
Capacity of I-beams - - - - -		1	12	Oct. 19, 1935
Cap cache, semiportable - - - - -	R-2	2	12	June 13, 1936
Cap, driving, sheet piling - - - - -	R-9	3	7	Apr. 3, 1937
Carbide storage - - - - -	R-7	2	20	Oct. 31, 1936
Carburetor, 1940 Ford trucks - - - -	CCC	7	4	July 1941
Carpenter's squares, renewing - - - -	R-10	7	3	May 1941
Casement window - - - - -	W.O.	6	4	April 1940
Caster, back filler - - - - -	R-5	3	12	Aug. 28, 1937
Cast iron in welding - - - - -	R-6	2	10	May 16, 1936
Cast iron welding - - - - -	R-9	3	2	Jan. 23, 1937
Caterpillar tractor, lower gearing -	R-6	6	5	May 1940
Cattle barrier, pole type - - - - -	SS FES	5	2	Feb. 1939
Cattle guard - - - - -	R-3	1	4	June 29, 1935
Cattle guard - - - - -	R-4	3	14	Sept. 25, 1937
Cause of hot motors - - - - -	R-9	2	14	July 11, 1936
Cementing iron - - - - -	R-5	1	11	Oct. 5, 1935
Cement quantity computation - - - - -	R-7	2	11	May 30, 1936
Chaining pin holder - - - - -	R-9	3	6	Mar. 20, 1937
Chain protection, dual wheels - - - -	R-9	3	4	Feb. 20, 1937
Chain, tail-gate, antirattler - - - -	R-6	3	11	Aug. 14, 1937
Chain tension, trucks - - - - -	R-9	3	10	July 23, 1937
Chain tighteners - - - - -	R-9	3	10	July 23, 1937
Chain tighteners - - - - -	R-1	4	8	Apr. 23, 1938
Charging unit, battery - - - - -	R-7	4	8	Apr. 23, 1938
Chart, air brake service - - - - -	R-5	4	4	Feb. 26, 1938
Charts, truck trail clearing - - - - -	R-5	4	4	Feb. 26, 1938
Checking governors - - - - -	W.O.	2	5	Mar. 7, 1936
Chevrolet, grease fitting - - - - -	R-6	6	5	May 1940
Chevrolet, installing new governors -	W.O.	4	9	May 14, 1938
Chevrolet, king pin lock bolt - - - -	R-7	3	6	Mar. 20, 1937
Chevrolet rack wrench - - - - -	R-7	3	12	Aug. 28, 1937
Chevrolet stake truck, 1935, brace -	R-9	6	3	March 1940
Chevrolet windshield bracket - - - -	R-8	1	9	Sept. 7, 1935
Chimney and forge - - - - -	R-9	4	8	Apr. 23, 1938
Chute bumper, rock - - - - -	R-6	3	10	July 23, 1937

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Chute for placing concrete - - - - -	R-2	3	14	Sept. 25, 1937
Clamp and hanger, cable - - - - -	R-5	3	16	Oct. 23, 1937
Clamp for small pieces in drill press	R-7	6	4	April 1940
Clamp tool, hose - - - - -		1	1	May 4, 1935
Clamp, tower leg, for telephones - -	R-9	2	6	Mar. 21, 1936
Cleaning bearing housings - - - - -	W.O.	2	10	May 16, 1936
Cleaning drill steel - - - - -	R-6	2	23	Dec. 12, 1936
Clearing, truck trail - - - - -	R-5	4	4	Feb. 26, 1938
Cletrac moldboard drafthook - - - -	R-1	4	8	Apr. 23, 1938
Clutch adjustments - - - - -		2	5	Mar. 7, 1936
Clutch facings, bimetallic - - - - -	R-5	7	1	January 1941
Cold weather starting - - - - -	R-2	2	13	June 27, 1936
Collapsible seats, bows, and steps -	SCS	5	7	September 1939
Compartment, fire extinguisher - - -	R-7	3	5	Mar. 6, 1937
Compartment, fire extinguisher - - -	R-7	4	5	Mar. 12, 1938
Compressor, alcohol drip - - - - -	R-7	3	12	Aug. 28, 1937
Compressor, axle protection - - - - -	R-7	1	7	Aug. 10, 1935
Compressor mounting - - - - -	R-4	1	9	Sept. 7, 1935
Compressor, portable trail - - - - -	R-6	3	3	Feb. 6, 1937
Compressor, synchronizing - - - - -	R-4	2	15	Aug. 22, 1936
Concrete bonding - - - - -	R-5	1	11	Oct. 5, 1935
Concrete, durable - - - - -	W.O.	6	10	October 1940
Concrete, field testing - - - - -	W.O.	7	1	January 1941
Concrete pipe setting bar - - - - -	R-8	3	4	Feb. 20, 1937
Concrete placing chute - - - - -	R-2	3	14	Sept. 25, 1937
Concrete vibrator - - - - -	R-5	1	11	Oct. 5, 1935
Concrete vibrator, pneumatic, shipping	R-6	7	1	January 1941
Cone hook - - - - -	R-5	7	4	July 1941
Concrete surfacing machine - - - - -	R-7	3	19	Dec. 11, 1937
Connecting rod gages, Diesel - - - -	R-5	1	11	Oct. 5, 1935
Construction, truck trail - - - - -	R-6	4	3	Feb. 12, 1938
Contents, round storage tanks - - -		1	8	Aug. 24, 1935
Contributions - - - - -	W.O.	2	2	Jan. 25, 1936
Control, trailbuilder hoist - - - -	R-7	4	5	Mar. 12, 1938
Conversion, dump trucks pumps - - -	R-8	6	5	May 1940
Conversion, truck pumps to graders -	R-8	5	8	October 1939
Conveyor belt protection - - - - -		1	15	Nov. 30, 1935
Cooler, jackhammer - - - - -	R-7	3	12	Aug. 28, 1937
Cooperation - - - - -	R-6	2	20	Oct. 31, 1936
Costs of excavating rock - - - - -	R-5	5	6	August 1939
Cover, drafting table - - - - -	R-9	3	12	Aug. 28, 1937
Cover, pick-up body - - - - -	R-9	3	17	Nov. 13, 1937
Cover, pick-up body - - - - -	R-5	3	20	Dec. 15, 1937
Cover for stake truck, bow design -	R-6	7	1	January 1941
Covers, truck, canvas - - - - -	R-10	3	12	Aug. 28, 1937
Cowl adapter, Chevrolet - - - - -	R-8	5	5	July 1939
Crane, shop - - - - -	R-6	3	3	Feb. 6, 1937
Crane, truck, swing boom - - - - -	R-6	3	3	Feb. 6, 1937

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Crank guide, truck - - - - -	R-9	3	15	Oct. 9, 1937
Creosote burns, treating - - - - -	R-8	1	9	Sept. 7, 1935
Crusher die, building up - - - - -	R-8	4	18	Sept. 24, 1938
Crusher jaws, reclaiming - - - - -	R-4	5	1	January 1939
Crusher, Lippman - - - - -	R-6	3	3	Feb. 6, 1937
Crusher, starting assembly - - - - -	R-9	3	16	Oct. 23, 1937
Culvert cleaner - - - - -	R-7	3	5	Mar. 6, 1937
Curve cutter - - - - -	R-7	6	9	September 1940
Curves, safety speed indicator - - - - -	W.O.	6	2	February 1940
Cut-slope rod - - - - -	R-8	2	2	Jan. 25, 1936
Cutters, iron - - - - -	R-9	3	12	Aug. 28, 1937
Cutting safety glass - - - - -	R-9	4	8	Apr. 23, 1938
Cutting, stone, drilling grinder - - - - -	R-7	3	12	Aug. 28, 1937
Cylinder bracket brace - - - - -	R-4	2	22	Nov. 28, 1936
Cylinder-head lifter - - - - -	R-7	3	11	Aug. 14, 1937
Cylinder reboring table - - - - -	R-6	3	11	Aug. 14, 1937
Decay, protection from, wood posts - - - - -	W.O.	6	8	August 1940
Derrick, stiff leg - - - - -	R-7	1	2	May 25, 1935
Details, iron, miscellaneous - - - - -	R-5	3	11	Aug. 14, 1937
Die crusher, building up - - - - -	R-8	4	18	Sept. 24, 1938
Die handle threading U-bolts - - - - -	R-6	3	9	July 9, 1937
Diesel fuel nozzles, injury by - - - - -	W.O.	3	16	Oct. 23, 1937
Diesel improved screen - - - - -	R-9	6	5	May 1940
Diesel operation (cartoon) - - - - -		2	14	July 11, 1936
Diesel rod gages - - - - -	R-5	1	11	Oct. 5, 1935
Differential drain plug - - - - -	R-7	3	6	Mar. 20, 1937
Differential gears, lubrication- (Stand.Oil)		5	2	February 1939
Differential housings, Reo - - - - -	R-7	3	12	Aug. 28, 1937
Digging telephone pole holes - - - - -	R-1	2	11	May 30, 1936
Dipper, muck - - - - -	R-7	3	15	Oct. 9, 1937
Dipper teeth - - - - -	R-2	3	7	Apr. 3, 1937
Discharge and outlet screens - - - - -	R-5	3	18	Nov. 27, 1937
Ditches, side - - - - -	W.O.	1	5	July 15, 1935
Diversions, stream - - - - -	R-5	3	18	Nov. 27, 1937
Dodge 1939, pumps, lubrication, front-wheel bearings - - - - -	W.O.	5	9	November 1939
Dodge 1939 dump, tail light guard - - - - -	R-9	6	3	March 1940
Dodge dump, trucks, safety device - - - - -	R-8	7	4	July 1941
Dodge dump truck, tow fitting - - - - -	R-9	6	3	March 1940
Dodge shift lever repair - - - - -	R-9	4	6	Mar. 26, 1938
Dodge trucks, steering - - - - -	W.O.	6	8	August 1940
Dolly, stone - - - - -	R-7	4	12	June 25, 1938
Door framing - - - - -	W.O.	6	9	September 1940
Door, garage, fastener - - - - -	R-9	6	1	January 1940
Door, garage, fastener - - - - -	R-9	7	3	May 1941
Door locks, garage - - - - -	R-9	3	15	Oct. 9, 1937
Door, tower, handle and lock - - - - -	R-9	6	2	February 1940
Door repair, truck - - - - -	R-9	3	17	Nov. 13, 1937

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Dorsey hook handle - - - - -	R-8	1	5	July 15, 1935
Double sheet bend knot - - - - -		1	4	June 29, 1935
Drafthook, Cletrac moldboard - - - -	R-1	4	8	Apr. 23, 1938
Drafting table cover - - - - -	R-9	3	12	Sept. 28, 1937
Drafting table horses - - - - -	R-7	3	9	July 9, 1937
Dragline and hoist, stationary - - -	R-6	3	3	Feb. 6, 1937
Dressing grindstones - - - - -	R-9	3	12	Aug. 28, 1937
Drier, canvas - - - - -	R-7	7	3	May 1941
Drill bits, treating - - - - -	R-1	2	2	Jan. 25, 1936
Drill guide - - - - -	R-8	4	11	June 11, 1938
Drill holder - - - - -	R-7	3	12	Aug. 28, 1937
Drilling guide for stone cutting - -	R-7	3	12	Aug. 28, 1937
Drill press, improved - - - - -	R-2	2	5	Mar. 7, 1936
Drill steel, cleaning - - - - -	R-6	2	23	Dec. 12, 1936
Drill steel puller - - - - -	R-1	4	9	May 14, 1938
Drill steel, retrieving - - - - -	R-7	2	7	Apr. 4, 1936
Drip, alcohol, compressor - - - - -	R-7	3	12	Aug. 28, 1937
Drip trough, oil house - - - - -	R-7	2	15	Aug. 22, 1936
Driver, pile - - - - -	R-8	1	5	July 15, 1935
Driving cap for sheet piling - - - -	R-9	3	7	Apr. 3, 1937
Drums, rope capacity - - - - -		1	8	Aug. 24, 1935
Dryer, gill net - - - - -	R-9	3	17	Nov. 13, 1937
Dual wheel chain protection - - - -	R-9	3	4	Feb. 20, 1937
Dual wheels, rock removal - - - - -	R-8	2	3	Feb. 8, 1936
Dumping device for trucks - - - - -	R-1	2	22	Nov. 28, 1936
Dump trucks, trip lever change - - -	R-9	6	1	January 1940
Durable concrete - - - - -	W.O.	6	10	October 1940
Dust proofing, panel bodies - - - -	R-8	3	10	July 23, 1937
Dynamite for pile driving - - - - -	R-8	2	5	Mar. 7, 1936
Economy, gasoline - - - - -	W.O.	4	11	June 11, 1938
Edged tool protection - - - - -	R-7	1	7	Aug. 10, 1935
Electric soldering iron - - - - -	R-3	2	19	Oct. 17, 1936
Ellipse, plotting - - - - -		1	2	May 25, 1935
Emergency kit relocation - - - - -	R-6	3	6	Mar. 20, 1937
Emery wheel dresser - - - - -		2	17	Sept. 19, 1936
Engine timing - - - - -	R-5	1	11	Oct. 5, 1935
Equipment repair - - - - -	W.O.	4	6	Mar. 26, 1938
Equipment storage - - - - -	R-1	2	2	Jan. 25, 1936
Erection of wood towers - - - - -	R-8	3	19	Dec. 11, 1937
Erection, Lookout towers - - - - -	R-6	5	6	August 1939
Excavation of rock, costs - - - - -	R-5	5	6	August 1939
Exhaust fume outlets - - - - -	R-1	1	17	Dec. 28, 1935
Exhaust protectors - - - - -	R-9	2	14	July 11, 1936
Explosives, blasting cap magazine -	R-9	6	11	December 1940
Extractor, axe handle - - - - -	R-9	3	8	Apr. 17, 1937
Extractor, axe handle - - - - -	R-9	3	12	Aug. 28, 1937

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Fan blades, Ford - - - - -	R-8	7	3	May 1941
Fan blades, 1940 Ford truck - - - -	CCC	7	4	July 1941
Fence construction methods - - - - -	R-2	3	6	Mar. 20, 1937
Fence, water gate - - - - -	R-2	3	6	Mar. 20, 1937
Ferguson pipe sled - - - - -	R-4	1	8	Aug. 24, 1935
Ferry, river, makeshift - - - - -	R-5	4	17	Sept. 10, 1938
Files- - - - -	R-5	1	11	Oct. 5, 1935
Film, aerial, light table - - - - -	R-2	6	2	February 1940
Filter installation - - - - -	R-9	4	12	June 25, 1938
Fire barrel and stand - - - - -		2	17	Sept. 19, 1936
Fire extinguisher compartment - - -	R-7	3	5	March 6, 1937
Fire extinguisher compartment - - -	R-7	4	5	Mar. 12, 1938
Fire extinguisher mounting - - - - -	R-7	3	5	Mar. 6, 1937
Fire hose box - - - - -	R-1	4	2	Jan. 22, 1938
Fire hydrant - - - - -	R-5	4	1	Jan. 8, 1938
Fire hydrant - - - - -	R-6	4	5	Mar. 12, 1938
Fire line brush buster - - - - -	R-6	3	3	Feb. 6, 1937
Fire line trencher - - - - -	R-6	3	3	Feb. 6, 1937
Fire tool box, rack for - - - - -	R-9	3	10	July 23, 1937
Fire tool rack - - - - -	R-7	2	17	Sept. 19, 1936
Fish stream protection - - - - -	W.O.	1	2	May 25, 1935
Floodlight - - - - -		3	12	Aug. 28, 1937
Folding truck seat - - - - -	k-4	2	22	Nov. 28, 1936
Ford fan blades - - - - -	R-8	7	3	May 1941
Ford trucks, 1940, complaints - - -	CCC	7	4	July 1941
Forge - - - - -	R-8	3	8	Apr. 17, 1937
Foundation walls for frame bldgs. --	W.O.	5	9	November 1939
Frames for truck covers - - - - -	R-9	2	7	Apr. 4, 1936
Frames, top - - - - -	R-7	2	18	Oct. 3, 1936
Frame, truck bows - - - - -	R-6	4	1	Jan. 8, 1938
Framing openings in buildings - - -	W.O.	6	9	Sept. 1940
Freezing, protecting concrete from -	W.O.	6	10	October 1940
Fuel nozzles, Diesel, injury by - -	W.O.	3	16	Oct. 23, 1937
Fume outlets, exhaust - - - - -	R-1	1	17	Dec. 28, 1935
Gage, gravel-spreading - - - - -	R-9	5	9	November 1939
Gage, water hole - - - - -	R-7	3	13	Sept. 11, 1937
Gage, water level - - - - -	R-9	3	6	Mar. 20, 1937
Gang plow - - - - -	R-8	2	19	Oct. 17, 1936
Garage door fastener - - - - -	R-9	7	3	May 1941
Garage door fastener - - - - -	R-9	6	1	January 1940
Garage door locks - - - - -	R-9	3	15	Oct. 9, 1937
Gaskets, tractor - - - - -	R-1	1	14	Nov. 16, 1935
Gasoline delivery, safety - - - - -	R-4	2	5	Mar. 7, 1936
Gasoline economy - - - - -	W.O.	4	11	June 11, 1938
Gas tank relocation - - - - -	R-6	2	21	Nov. 14, 1936
Gas tank shield - - - - -		3	20	Dec. 25, 1937
Gate, water, fence - - - - -	R-2	3	6	Mar. 20, 1937
Gearing for Caterpillar "50" - - - -	R-6	6	5	May 1940
General Motors, 1935, motor change -	R-6	5	1	January 1939

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
General Motors truck radiator - - -	R-9	3	7	Apr. 3, 1937
Gill net, box and dryer - - - - -	R-9	3	17	Nov. 13, 1937
Glass cutting, safety - - - - -	R-9	4	8	Apr. 23, 1938
Glass signal protector - - - - -	R-9	1	9	Sept. 7, 1935
Governor checking - - - - -	W.O.	2	5	Mar. 7, 1936
Governors, engine, of cast iron - -	W.O.	7	5	September 1941
Governors, new type Chevrolet - - -	W.O.	4	9	May 14, 1938
Grab handles for tractor - - - - -	SCS	6	7	July 1940
Grader blades, use of old - - - - -	R-9	2	6	Mar. 21, 1936
Grader, conversion from pump - - -	R-8	6	5	May 1940
Grader, conversion from pump - - -	R-8	5	8	October 1939
Grader trailer - - - - -	R-9	2	19	Oct. 17, 1936
Grader wheel pontoon - - - - -	R-8	2	15	Aug. 22, 1936
Granny knot - - - - -		1	4	June 29, 1935
Gravel bin gate - - - - -	R-4	7	4	July 1941
Gravel loader - - - - -	R-4	3	13	Sept. 11, 1937
Gravel screen for dump truck - - -	R-9	5	3	May 1939
Gravel spreading gage - - - - -	R-9	5	9	November 1939
Greases for lubrication - - - - -	W.O.	7	2	March 1941
Greases for lubrication, correction	W.O.	6	5	May 1940
Greases for lubrication - - - - -	W.O.	5	10	December 1939
Grinder, bench, guard for - - - - -	R-8	4	7	Apr. 9, 1938
Grinder, tool - - - - -	R-1	1	10	Sept. 21, 1935
Grindstone - - - - -	R-1	4	6	Mar. 26, 1938
Grindstone, dressing - - - - -	R-9	3	12	Aug. 28, 1937
Grindstone, portable - - - - -	R-1	1	15	Nov. 30, 1935
Grindstone, power - - - - -	R-9	1	14	Nov. 16, 1935
Grindstone, truing - - - - -	R-2	2	3	Feb. 8, 1936
Guard, axe - - - - -	R-5	6	7	August 1940
Guard, bench grinder - - - - -	R-8	4	7	Apr. 9, 1938
Guard bumper for trailbuilder - - -	R-7	7	3	May 1941
Guard, cattle - - - - -	R-3	1	4	June 29, 1935
Guard, cattle - - - - -	R-4	3	14	Sept. 25, 1937
Guard for tool grinder - - - - -	R-8	4	12	June 25, 1938
Guard for tool grinder - - - - -	R-8	4	18	Sept. 24, 1938
Guards, tractor track rollers - - -		3	12	Aug. 28, 1937
Guide, drilling, stone cutting - - -	R-7	3	12	Aug. 28, 1937
Guide, truck crank - - - - -	R-9	3	15	Oct. 9, 1937
Handle and lock for tower door - - -	R-9	6	2	February 1940
Handle, Dorsey hook - - - - -	R-8	1	5	July 15, 1935
Handle extractor, axe - - - - -	R-9	3	8	Apr. 17, 1937
Handle extractor, axe - - - - -	R-9	3	12	Aug. 28, 1937
Handle, thread die, U-bolt - - - -	R-6	3	9	July 9, 1937
Handles, grab, for tractor - - - -	SCS	6	7	July 1940
Hanger and clamp, cable - - - - -	R-5	3	16	Oct. 23, 1937
Hardening cast iron, welding - - -	R-6	2	10	May 16, 1936
Hawser bend knot - - - - -		1	5	July 15, 1935
Head gate opening, truck - - - - -	R-5	3	12	Aug. 28, 1937

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Headlight relay - - - - -	R-8	4	7	Apr. 9, 1938
High pressure lines protection - - -	R-9	2	3	Feb. 8, 1936
Hoist - - - - -	R-5	1	11	Oct. 5, 1935
Hoist and dragline, stationary - - -	R-6	3	3	Feb. 6, 1937
Hoist on Chevrolet pickup chassis - -	R-9	5	9	November 1939
Hoist, trailbuilder control - - - - -	R-7	4	5	Mar. 12, 1938
Holder, drill - - - - -	R-7	3	12	Aug. 28, 1937
Holder for chain pins - - - - -	R-9	3	6	Mar. 20, 1937
Hole, bolt, marking tool - - - - -	R-5	3	19	Dec. 11, 1937
Hole gauge, water - - - - -	R-7	3	13	Sept. 11, 1937
Hood for tool grinder - - - - -	R-8	4	18	Sept. 24, 1938
Hook, stone - - - - -	R-7	3	12	Aug. 28, 1937
Horse for drafting table - - - - -	R-7	3	9	July 9, 1937
Horse, saw - - - - -	R-9	3	17	Aug. 14, 1937
Horse trailer - - - - -	R-6	3	3	Feb. 6, 1937
Horse trailer - - - - -	R-1	6	7	July 1940
Hose box, fire - - - - -	R-1	4	2	Jan. 22, 1938
Hose breakage, trailbuilder - - - - -	R-1	1	14	Nov. 16, 1935
Hose clamp tool - - - - -		1	1	May 4, 1935
Hose, hydraulic - - - - -	R-5	1	16	Dec. 14, 1935
Hose line breakage - - - - -	R-8	2	10	May 16, 1936
Hot motor causes - - - - -	R-9	2	14	July 11, 1936
Housings, differential, Reo - - - - -	R-7	3	12	Aug. 28, 1937
Hydrant, fire - - - - -	R-5	4	1	Jan. 8, 1938
Hydrant, fire - - - - -	R-6	4	5	Mar. 12, 1938
Hydraulic hose - - - - -	R-5	1	16	Dec. 14, 1935
Hydraulic line protection - - - - -	R-6	2	3	Feb. 8, 1936
I-beam capacity - - - - -		1	12	Oct. 19, 1935
Improved drill press - - - - -	R-2	2	5	Mar. 7, 1936
Incinerator - - - - -	R-7	2	21	Nov. 14, 1936
Individual axe box - - - - -	R-1	2	6	Mar. 21, 1936
Information, Reo - - - - -	W.O.	4	11	June 11, 1938
Injury by Diesel fuel nozzles - - - -	W.O.	3	16	Oct. 23, 1937
Insulators, telephone - - - - -	R-4	2	12	June 13, 1936
Iron cement - - - - -	R-5	1	11	Oct. 5, 1935
Iron cutters - - - - -	R-9	3	12	Aug. 28, 1937
Iron details, miscellaneous - - - - -	R-5	3	11	Aug. 14, 1937
Irons, branding - - - - -	R-9	2	22	Nov. 28, 1936
Jack, automatic truck - - - - -	R-6	1	11	Oct. 5, 1935
Jackhammer cooler - - - - -	R-7	3	12	Aug. 28, 1937
Jackhammer guide - - - - -	R-1	1	15	Nov. 30, 1935
Jackhammer in reverse - - - - -	R-1	2	1	Jan. 11, 1936
Jackhammer in reverse - - - - -	R-3	2	7	Apr. 4, 1936
Jackhammers - - - - -	R-5	1	11	Oct. 5, 1935
Jack supplement - - - - -	R-9	3	7	Apr. 3, 1937
Jaws, reclaiming rock crusher - - - -	R-4	5	1	January 1939
Jig, boring - - - - -	R-1	3	9	July 9, 1937

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Keg, truck water - - - - -		1	9	Sept, 7, 1935
Key tag - - - - -	R-7	3	20	Dec. 25, 1937
King pin lock bolt, Chevrolet - - -	R-7	3	6	Mar. 20, 1937
Kit, relocation, emergency - - - - -	R-6	3	6	Mar. 20, 1937
Knife planimeter - - - - -		1	7	Aug. 10, 1935
Knots, barrel sling, horizontal - -		1	6	July 27, 1935
Knots, barrel sling, vertical - - -		1	6	July 27, 1935
Knots, blackwall hitch - - - - -		1	6	July 27, 1935
Knots, bowline - - - - -		1	5	July 13, 1935
Knots, double sheet bend - - - - -		1	4	June 29, 1935
Knots, granny - - - - -		1	4	June 29, 1935
Knots, hawser bend - - - - -		1	5	July 13, 1935
Knots, mooring - - - - -		1	6	July 27, 1935
Knots, overhand - - - - -		1	4	June 29, 1935
Knots, reef - - - - -		1	4	June 29, 1935
Knots, running bowline - - - - -		1	5	July 13, 1935
Knots, single sheet bend - - - - -		1	4	June 29, 1935
Knots, square - - - - -		1	4	June 29, 1935
Knots, splices - - - - -		1	7	Aug. 10, 1935
Knots, thief - - - - -		1	4	June 29, 1935
Knots, timber hitch - - - - -		1	5	July 13, 1935
Knots, wall - - - - -		1	6	July 27, 1935
Knots, weavers - - - - -		1	4	June 29, 1935
Ladder and latch for stake trucks -	R-9	6	6	June 1940
Ladder, stake truck - - - - -	R-9	3	20	Dec. 25, 1937
Ladder, tailgate - - - - -	R-1	2	3	Feb. 8, 1936
Level, water - - - - -	R-9	3	6	Mar. 20, 1937
Lever, shift, repair - - - - -	R-9	4	6	Mar. 26, 1938
Levers, toggle - - - - -	R-5	1	12	Oct. 19, 1935
Lifter, cylinder head - - - - -	R-7	3	11	Aug. 14, 1937
Light guards for tractors - - - - -	R-6	2	6	Mar. 21, 1936
Light table for aerial film - - - -	R-2	6	2	February 1940
Light, work, flood - - - - -		3	12	Aug. 28, 1937
Lineman's tool - - - - -	R-7	2	19	Oct. 17, 1936
Links, track, rebuilding - - - - -	R-9	3	12	Aug. 28, 1937
Lippmann crusher - - - - -	R-6	3	3	Feb. 6, 1937
Loader, gravel - - - - -	R-4	3	13	Sept. 11, 1937
Locating engine miss - - - - -	W.O.	1	13	Nov. 2, 1935
Location, truck trail - - - - -	W.O.	1	5	July 15, 1935
Locator's level - - - - -	R-7	2	5	Mar. 7, 1936
Lock for blasting machine - - - - -	R-1	4	9	May 14, 1938
Locks, garage door - - - - -	R-9	3	15	Oct. 9, 1937
Logging trailers - - - - -	R-1	1	17	Dec. 28, 1935
Lookout tower erection - - - - -	R-6	5	6	August 1939
Lookout tower erection - - - - -	R-8	3	19	Dec. 11, 1937
Lookout tower telephones - - - - -	R-9	2	10	May 16, 1936
Low cost roads - - - - -		2	14	July 11, 1936
Lubricants, standard oil - - - - -	W.O.	4	12	June 25, 1938

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Lubrication - - - - -	W.O.	3	6	Mar. 20, 1937
Lubrication, 1939 Dodge trucks - -	W.O.	5	9	November 1939
Lubrication, differential gears - (Stand.Oil)	5	2	February	1939
Lubrication guide, corrections - -	W.O.	7	4	July 1941
Lubrication guide - - - - -	W.O.	7	2	March 1941
Lubrication guide, corrections - -	W.O.	6	5	May 1940
Lubrication guide - - - - -	W.O.	5	10	December 1939
Lubrication Guide - - - - -	W.O.	4	10	May 28, 1938
Lubrication, wire rope - - - - -	R-6	5	8	October 1939
Machine, blasting, lock - - - - -	R-1	4	9	May 14, 1938
Machine, concrete surfacing - - -	R-7	3	19	Dec. 11, 1937
Machinery maintenance - - - - -	W.O.	2	15	Aug. 22, 1936
Magazine, blasting caps - - - - -	R-9	6	11	December 1940
Magazine, box, portable - - - - -	R-8	2	19	Oct. 17, 1936
Maintenance of machinery - - - - -	W.O.	2	15	Aug. 22, 1936
Maintenance, preventative - - - - -	W.O.	3	1	Jan. 9, 1937
Maintenance, Reo - - - - -	W.O.	4	2	Jan. 22, 1938
Maintenance Standards - - - - -	W.O.	5	7	Sept. 1939
Map mounting - - - - -	ECW	1	16	Dec. 14, 1935
Map rack, sliding - - - - -	R-6	2	1	Jan. 11, 1936
Marker, timber - - - - -	R-9	3	12	Aug. 28, 1937
Marking tool, bolt hole - - - - -	R-5	3	19	Dec. 11, 1937
Marking tools - - - - -	R-8	2	16	Sept. 5, 1936
Measuring can, water - - - - -	SCS	3	10	July 23, 1937
Metal rules, renewing - - - - -	R-10	7	3	May 1941
Mixing of concrete - - - - -	W.O.	6	10	October 1940
Moisture control, concrete - - - - -	W.O.	6	10	October 1940
Moldboard drafthook, Cletrac - - -	R-1	4	8	Apr. 23, 1938
Motor change for 1935 GMC trucks -	R-6	5	1	January 1939
Mounting fire extinguishers - - -	R-7	3	5	Mar. 6, 1937
Mounting maps - - - - -	ECW	1	16	Dec. 14, 1935
Mounting portable compressors - -	R-4	1	9	Sept. 7, 1935
Mounting Reo radiators - - - - -	R-6	2	20	Oct. 31, 1936
Muck dipper - - - - -	R-9	3	15	Oct. 9, 1937
Net, gill, box and dryer - - - - -	R-9	3	17	Nov. 13, 1937
Nozzles, Diesel fuel, injury by -	W.O.	3	16	Oct. 23, 1937
Offset table, tangent - - - - -	R-9	1	6	July 27, 1935
Oil change standards - - - - -	W.O.	5	7	September 1939
Oil dispenser - - - - -	R-8	2	24	Dec. 26, 1936
Oil filters - - - - -	R-9	4	12	June 25, 1938
Oil for lubrication, correction -	W.O.	7	4	July 1941
Oil for lubrication - - - - -	W.O.	7	2	March 1941
Oil for lubrication, correction -	W.O.	6	5	May 1940
Oil for lubrication - - - - -	W.O.	5	10	December 1939
Oil house drip trough - - - - -	R-7	2	15	Aug. 22, 1936
Oil pump, trailbuilder - - - - -		4	4	Feb. 26, 1938

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
One-man saw - - - - -	R-9	2	23	Dec. 12, 1936
Operation of tractor-trailbuilder -	W.O.	6	11	December 1940
Outlet and discharge screens - - - -	R-5	3	18	Nov. 27, 1937
Overhand knot - - - - -		1	4	June 29, 1935
Paint brush can - - - - -	R-8	3	15	Oct. 9, 1937
Parabola plotting - - - - -		1	3	June 15, 1935
Peeler, bark - - - - -	R-2	2	8	Apr. 18, 1936
Pile driver - - - - -	R-8	1	5	July 15, 1935
Pile driver, portable - - - - -	R-6	3	3	Feb. 6, 1937
Pile driving with dynamite - - - -	R-8	2	5	Mar. 7, 1936
Piling, sheet, driving cap - - - -	R-9	3	7	Apr. 3, 1937
Pipe and screen, tractor, air - - -	R-9	4	6	Mar. 26, 1938
Pipe railings - - - - -	W.O.	6	6	May 1940
Pipe sled, Ferguson - - - - -	R-4	1	8	Aug. 24, 1935
Pistons of cast iron - - - - -	W.O.	7	5	Sept. 1941
Placing concrete, chute for - - - -	R-2	3	14	Sept. 25, 1937
Placing of concrete - - - - -	W.O.	6	10	October 1940
Plan, building - - - - -	W.O.	7	4	July 1941
Plane table meridian - - - - -	R-5	1	14	Nov. 16, 1935
Planimeter, pocket knife - - - - -		1	7	Aug. 10, 1935
Planting Plow - - - - -	R-6	3	3	Feb. 6, 1937
Plotting ellipse - - - - -		1	2	May 25, 1935
Plotting parabola - - - - -		1	3	June 15, 1935
Plow, gang - - - - -	R-8	2	19	Oct. 17, 1936
Plow, planting - - - - -	R-6	3	3	Feb. 6, 1937
Plow, snow - - - - -	R-6	3	3	Feb. 6, 1937
Pocket knife planimeter - - - - -		1	7	Aug. 10, 1935
Polarity indicator - - - - -	R-5	1	11	Oct. 5, 1935
Pole, telephone, emergency hookup -	R-9	3	12	Aug. 28, 1937
Pole type, stock barrier - - - - - SS	FES	5	2	February 1939
Pontoon, grader wheel - - - - -	R-8	2	15	Aug. 22, 1936
Portable grindstone - - - - -	R-1	1	15	Nov. 30, 1935
Portable pile driver - - - - -	R-6	3	3	Feb. 6, 1937
Posts, wood, protection from decay-	W.O.	6	8	August 1940
Power grindstone - - - - -	R-9	1	14	Nov. 16, 1935
Power takeoff - - - - -	R-6	3	3	Feb. 6, 1937
Preventative maintenance - - - - -	W.O.	3	1	Jan. 9, 1937
Proportion of concrete mix - - - -	W.O.	6	10	October 1940
Protect fish streams - - - - -	W.O.	1	2	May 25, 1935
Protection, compressor axles - - -	R-7	1	7	Aug. 10, 1935
Protection, conveyor belts - - - -		1	15	Nov. 30, 1935
Protection, edged tools - - - - -	R-7	1	7	Aug. 10, 1935
Protection of high pressure lines -	R-9	2	3	Feb. 8, 1936
Protection of hydraulic lines - - -	R-6	2	3	Feb. 8, 1936
Protection of truck tarpaulins - --	R-1	2	4	Feb. 22, 1936
Protector, glass signal - - - - -	R-9	1	9	Sept. 7, 1935
Puller, drill steel - - - - -	R-1	4	9	May 14, 1938
Pump, oil, trailbuilder - - - - -		4	4	Feb. 26, 1938

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>	
Pumps, truck, conversion to grader -	R-8	6	5	May	1940
Pumps, truck, conversion to grader -	R-8	5	8	October	1939
Pusher, tree - - - - -	R-1	1	9	Sept. 7,	1935
Quantity of materials, concrete - --	W.O.	6	10	October	1940
Rack, fire tool box - - - - -	R-9	3	10	July 23,	1937
Rack for blue prints - - - - -	R-7	3	2	Jan. 23,	1937
Rack for fire tools - - - - -	R-7	2	17	Sept. 19,	1936
Rack for saws - - - - -	R-6	5	6	August	1939
Rack for saws - - - - -	R-9	5	5	July	1939
Rack for tire changing - - - - -	R-9	6	1	January	1940
Rack for tools - - - - -	R-7	5	7	September	1939
Rack, gill net, dryer - - - - -	R-9	3	17	Nov. 13,	1937
Rack, saw filing - - - - -	R-9	3	18	Nov. 27,	1937
Rack, saw filing - - - - -	R-7	4	8	Apr. 13,	1938
Rack wrench, Chevrolet - - - - -	R-7	3	12	Aug. 28,	1937
Radiator, General Motors truck - - -	R-9	3	7	Apr. 3,	1937
Radiator leakage, 1940 Ford trucks -	CCC	7	4	July	1941
Radiator mounting, Reo - - - - -	R-6	2	20	Oct. 31,	1936
Radiator perk - - - - -	R-8	1	13	Nov. 2,	1935
Radio trailer - - - - -	R-6	3	3	Feb. 6,	1937
Rag container - - - - -	R-7	2	17	Sept. 19,	1936
Rail bumper, trucks - - - - -	R-6	3	10	July 23,	1937
Rain alarm - - - - -	R-5	3	13	Sept. 11,	1937
Rasp, wood - - - - -	R-9	3	9	July 9,	1937
Reboring table, cylinder - - - - -	R-6	3	11	Aug. 14,	1937
Rebuilding track links - - - - -	R-9	3	12	Aug. 28,	1937
Rebuilding track rails and rollers -	W.O.	2	11	May 30,	1936
Rebuilding tractor track rollers - -	R-9	3	7	Apr. 3,	1937
Rebuilding tractor track rollers - -	R-9	4	7	Apr. 9,	1938
Reef knot - - - - -		1	4	June 29,	1935
Reel, blasting wire - - - - -	R-7	3	8	Apr. 17,	1937
Reel, hand, for rope or cable - - -	R-9	6	2	February	1940
Reel, telephone, wheelbarrow - - - -	R-8	3	6	Mar. 20,	1937
Reel, wire - - - - -	R-1	2	3	Feb. 8,	1936
Reel, wire - - - - -	R-9	5	8	October	1939
Reflector, truck - - - - -	R-9	3	12	Aug. 28,	1937
Relay, headlight - - - - -	R-8	4	7	Apr. 9,	1938
Relocation gas tanks - - - - -	R-6	2	21	Nov. 14,	1936
Removing broken shaft - - - - -	R-6	2	1	Jan. 11,	1936
Reo differential housings - - - - -	R-7	3	12	Aug. 28,	1937
Reo information - - - - -	W.O.	4	11	June 11,	1938
Reo maintenance - - - - -	W.O.	4	2	Jan. 22,	1938
Reo truck, running board brace - - -	R-7	3	14	Sept. 25,	1937
Repair, equipment, when to stop - -	W.O.	4	6	Mar. 26,	1938
Repairs, trailbuilder - - - - -	R-7	2	7	Apr. 4,	1936
Repairs, trailbuilder - - - - -	R-7	2	8	Apr. 18,	1936
Repair, truck door - - - - -	R-9	3	17	Nov. 13,	1937

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Replacement of sprocket tooth - - - -		3	12	Aug. 28, 1937
Retrieving drill steel - - - - - R-7		2	7	Apr. 4, 1936
Reverse jackhammer - - - - - R-1		2	1	Jan. 11, 1936
Reverse jackhammer - - - - - R-3		2	7	Apr. 4, 1936
Ridge top road survey - - - - - R-8		2	4	Feb. 22, 1936
Ripper loader - - - - - R-1		2	22	Nov. 28, 1936
Road slope scale - - - - - R-8		4	7	Apr. 9, 1938
Roads, low-cost - - - - -		2	14	July 11, 1936
Road slope template - - - - - -ASCE		4	9	May 14, 1938
Road survey, ridge top - - - - - R-8		2	4	Feb. 22, 1936
Road warning sign - - - - - R-6		4	5	Mar. 12, 1938
Rock bin - - - - - R-6		3	3	Feb. 6, 1937
Rock chute bumper - - - - - R-6		3	10	July 23, 1937
Rock crusher starting assembly- - - R-9		3	16	Oct. 23, 1937
Rock dozer - - - - - R-1		1	17	Dec. 28, 1935
Rock excavation costs - - - - - R-5		5	6	August 1939
Rock removal from dual wheels - - - R-8		2	3	Feb. 8, 1936
Rock ripper - - - - - R-6		3	3	Feb. 6, 1937
Rock sled - - - - - R-6		4	11	June 11, 1938
Rod, cut-slope - - - - - R-8		2	2	Jan. 25, 1936
Roller guards, tractor track - - - -		3	12	Aug. 28, 1937
Rollers, rebuilding tractor track - - R-9		3	7	Apr. 3, 1937
Rollers, rebuilding tractor track - - R-9		4	7	Apr. 9, 1938
Rollers,sheepsfoot, repairing - - - -		5	1	January 1939
Roller, Tractor - - - - - R-9		3	7	Apr. 3, 1937
Rope, capacity of drums - - - - -		1	8	Aug. 24, 1935
Rope splices - - - - -		1	7	Aug. 10, 1935
Rope starter, rock crusher- - - - - R-9		3	16	Oct. 23, 1937
Rope walkway, safety - - - - - R-1		2	12	June 13, 1936
Rope, wire - - - - -		1	11	Oct. 5, 1935
Rope, wire, lubricating- - - - - R-6		5	8	October 1939
Round tanks, contents - - - - -		1	8	Aug. 24, 1935
Runner, snow, wheelbarrow - - - - -		3	12	Aug. 28, 1937
Running board brace, Reo truck - - - R-7		3	14	Sept. 25, 1937
Running bowline knot - - - - -		1	5	July 15, 1935
Sack filler - - - - -		1	15	Nov. 30, 1935
Sack, seed carrying - - - - - R-9		3	7	Apr. 3, 1937
Safe speed indicator, curves - - - - W.O.		6	2	February 1940
Safety device Dodge dumps - - - - - R-8		7	4	July 1941
Safety device, tool box lid - - - - - R-8		6	11	December 1940
Safety glass, cutting - - - - - R-9		4	8	Apr. 23, 1938
Safety grab handles, tractor- - - - - SCS		6	7	July 1940
Safety ladder and latch, stakes - - - R-9		6	6	June 1940
Safety measure, slippery surfaces - - R-5		6	11	December 1940
Safety, swinging boom - - - - -		5	4	June 1939
Salt for exhaustion - - - - - R-1		1	10	Sept. 21, 1935
Sand and gravel washer - - - - - W.O.		6	10	October 1940
Sand barrel base - - - - - R-7		3	1	Jan. 9, 1937

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Sand barrel, self-spilling - - - - -	R-7	4	5	Mar. 12, 1938
Sand box - - - - -	R-9	2	8	Apr. 18, 1936
Sand test - - - - -		2	21	Nov. 14, 1936
Saw box for 8 saws - - - - -	R-6	6	5	May 1940
Saw filing rack - - - - -	R-9	3	18	Nov. 27, 1937
Saw filing rack - - - - -	R-7	4	8	Apr. 23, 1938
Saw filing rack or vise, portable- -	R-6	5	6	August 1939
Saw filing room - - - - -	R-9	6	8	August 1940
Saw filing vise and tools - - - - -	R-2	6	1	January 1940
Saw holding tool - - - - -	R-7	2	10	May 16, 1936
Saw horse - - - - -	R-9	3	11	Aug. 14, 1937
Saw, one-man - - - - -	R-9	2	23	Dec. 12, 1936
Saw rack for crosscut saws - - - - -	R-9	5	5	July 1939
Saw sheath - - - - -	R-7	3	7	Apr. 3, 1937
Saw units - - - - -	R-1	1	16	Dec. 14, 1935
Scale, slope - - - - -	R-8	4	7	Apr. 9, 1938
Screen and pipe, tractor, air - - -	R-9	4	6	Mar. 26, 1938
Screen, fuel oil for Diesel - - - -		6	5	May 1940
Screen, gravel, for dump trucks - -	R-9	5	3	May 1939
Screens, discharge and outlet - - -	R-5	3	18	Nov. 27, 1937
Seats, truck - - - - -	R-8	2	16	Sept. 5, 1936
Seats, truck - - - - -	R-9	6	4	April 1940
Seats, truck, collapsible - - - - -	SCS	5	7	Sept. 1939
Seed carrying sack - - - - -	R-9	3	7	Apr. 3, 1937
Setting bar for concrete pipe- - - -	R-6	3	4	Feb. 20, 1937
Shackle, spring, washer - - - - -	R-7	7	3	May 1941
Sheath, saw - - - - -	R-7	3	7	Apr. 3, 1937
Sheaves - - - - -		2	3	Feb. 8, 1936
Sheepsfoot rollers, repairing - - -		5	1	January 1939
Sheet bend knot, double - - - - -		1	4	June 29, 1935
Sheet bend knot, single - - - - -		1	4	June 29, 1935
Shelter, tree cache - - - - -	R-9	3	16	Oct. 23, 1937
Shield, gas tank - - - - -		3	20	Dec. 25, 1937
Shift lever repair - - - - -	R-9	4	6	Mar. 26, 1938
Shin guards - - - - -	R-9	2	17	Sept. 19, 1936
Shipping box, concrete vibrator - -	R-6	7	1	January 1941
Shop crane - - - - -	R-6	3	3	Feb. 1, 1937
Shop practice, tractors - - - - -	R-5	2	13	June 27, 1936
Side ditches - - - - -	W.O.	1	5	July 15, 1935
Sieve analysis - aggregate - - - - -	W.O.	6	10	October 1940
Sign Plaques, concealed bolting- - -	R-3	5	4	June 1939
Sign, warning - - - - -	R-6	4	5	Mar. 12, 1938
Simplified abney adjustment - - - -	R-4	1	10	Sept. 21, 1935
Single sheet bend knot - - - - -		1	4	June 29, 1935
Ski barrow - - - - -	R-9	5	5	July 1939
Sled, Ferguson pipe - - - - -	R-4	1	8	Aug. 24, 1935
Sled, rock - - - - -	R-6	4	11	June 11, 1938
Slippery surfaces, safety measures -	R-5	6	11	December 1940
Slope rod - - - - -	R-10	2	8	Apr. 18, 1936

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Slope scale - - - - -	R-8	4	7	Apr. 9, 1938
Slope, template, road - - - - -	ASCE	4	9	May 14, 1938
Sludge, excessive, 1940 Ford - - - -	CCC	7	4	July 1941
Snow plow - - - - -	R-6	3	3	Feb. 6, 1937
Snowplows, tractor, cab - - - - -	R-7	3	12	Aug. 28, 1937
Snow plow, trailbuilder - - - - -	R-1	2	2	Jan. 25, 1936
Snow runner, wheelbarrow - - - - -		3	12	Aug. 28, 1937
Sodium-filled engine valves - - - - -	W.O.	7	4	July 1941
Soldering iron, electric - - - - -	R-3	2	19	Oct. 17, 1936
Spark arrester, tent stove - - - - -	R-6	3	9	July 9, 1937
Speed indicator, safe, on curves -	W.O.	6	2	February 1940
Splices, rope - - - - -		1	7	Aug. 10, 1935
Sprocket tooth replacement - - - - -		3	12	Aug. 28, 1937
Square knot - - - - -		1	4	June 29, 1935
Stabilization - - - - -	W.O.	1	14	Nov. 16, 1935
Stabilization - - - - -	W.O.	1	15	Nov. 30, 1935
Stabilization - - - - -	W.O.	1	16	Dec. 14, 1935
Stadia - - - - -	R-5	1	12	Oct. 19, 1935
Stake truck cover, bow design - - -	R-6	7	1	January 1941
Stake truck safety ladder - - - - -	R-9	6	6	June 1940
Standard oil lubricants - - - - -	W.O.	4	12	June 25, 1938
Starting assembly, rock crusher - -	R-9	3	16	Oct. 23, 1937
Starting heavy equipment - - - - -	R-2	2	13	June 27, 1936
Starting switch - - - - -	R-6	4	1	Jan. 8, 1938
Stationary hoist and dragline - - -	R-6	3	3	Feb. 6, 1937
Steel, drill puller - - - - -	R-1	4	9	May 14, 1938
Steel tempering - - - - -	W.O.	1	1	May 4, 1935
Steel tempering - - - - -	R-5	1	11	Oct. 5, 1935
Steel testing - - - - -	R-5	1	11	Oct. 5, 1935
Steering gear brace, Chevrolet - - -	R-5	5	4	June 1939
Steering on Dodge trucks - - - - -	W.O.	6	8	August 1940
Steps, seats, bows, collapsible - -	SCS	5	7	Sept. 1939
Steps, safety, truck - - - - -	SCS	2	12	June 13, 1936
Stiff leg derrick - - - - -	R-7	1	2	May 25, 1935
Stock barrier, pole-type - - - - -	SS FES	5	2	February 1939
Stock bins - - - - -	R-9	2	21	Nov. 14, 1936
Stone cutting, drilling guide - - -	R-7	3	12	Aug. 28, 1937
Stone dolly - - - - -	R-7	4	12	June 25, 1938
Stone, grinding - - - - -	R-1	4	6	Mar. 26, 1938
Stone hook - - - - -	R-7	3	12	Aug. 28, 1937
Storage of equipment - - - - -	R-1	2	2	Jan. 25, 1936
Storage, tool, on stake truck - - -	R-9	4	19	Dec. 24, 1938
Stove, tent, spark arrester - - - -	R-6	3	9	July 9, 1937
Straightening handles with blowtorch	R-5	3	1	Jan. 9, 1937
Stream diversions - - - - -	R-5	3	18	Nov. 27, 1937
Stream protection, fish - - - - -	W.O.	1	2	May 25, 1935
Stubbing wire, twisting tool - - -	R-1	3	14	Sept. 25, 1937
Surfacing machine, concrete - - - -	R-7	3	19	Dec. 11, 1937
Switch, starting - - - - -	R-6	4	1	Jan. 8, 1938
Synchronizing compressors - - - - -	R-4	2	15	Aug. 22, 1936

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Table cover, drafting - - - - -	R-9	3	12	Aug. 28, 1937
Table, drafting, horses - - - - -	R-7	3	9	July 9, 1937
Table, cylinder reboring - - - - -	R-7	3	11	Aug. 14, 1937
Table, tangent offset - - - - -	R-9	1	6	July 27, 1935
Table, tracing - - - - -	R-5	4	2	Jan. 22, 1938
Tag, key - - - - -	R-7	3	20	Dec. 25, 1937
Tailgate chain, anti-rattler - - -	R-6	3	11	Aug. 14, 1937
Tailgate ladder - - - - -	R-1	2	3	Feb. 8, 1936
Tailgate latch, safety - - - - -	R-9	6	6	June 1940
Tail light bracket, box type - - -	R-9	4	17	Sept. 14, 1938
Tail light guard, 1939, Dodge - - -	R-9	6	3	March 1940
Tangent offset table - - - - -	R-9	1	6	July 27, 1935
Tank, gas, shield - - - - -		3	20	Dec. 25, 1937
Tanks, contents of - - - - -		1	8	Aug. 24, 1935
Tarpaulin protection - - - - -	R-1	2	4	Feb. 22, 1936
Tatum holders - - - - -	R-10	2	8	Apr. 18, 1936
Teeth, dipper - - - - -	R-2	3	7	Apr. 3, 1937
Telephone hookup pole, emergency --	R-9	3	12	Aug. 28, 1937
Telephone insulators - - - - -	R-4	2	12	June 13, 1936
Telephone pole holes - - - - -	R-1	2	11	May 30, 1936
Telephone reel, wheelbarrow - - -	R-8	3	6	Mar. 20, 1937
Telephone test set - - - - -	R-9	4	19	Dec. 24, 1938
Telephones in lookout towers - - -	R-9	2	10	May 16, 1936
Tempering steel - - - - -	W.O.	1	1	May 4, 1935
Tempering steel - - - - -	R-5	1	11	Oct. 5, 1935
Template, road slope - - - - -	ASCE	4	9	May 14, 1938
Tent stove spark arrester - - - -	R-6	3	9	July 9, 1937
Testing concrete - - - - -	W.O.	6	10	October 1940
Testing concrete in field - - - -	W.O.	7	1	January 1941
Testing steel - - - - -	R-5	1	11	Oct. 5, 1935
Thief knot - - - - -		1	4	June 29, 1935
Threading U-bolts, die handle - - -	R-6	3	9	July 9, 1937
Tighteners, truck chain - - - - -	R-9	3	10	July 23, 1937
Tighteners, truck chain - - - - -	R-1	4	8	Apr. 23, 1938
Tile trouble in alkali water - - -		2	10	May 16, 1936
Timber hitch knot - - - - -		1	5	July 15, 1935
Timber marker - - - - -	R-9	3	12	Aug. 28, 1937
Tire-changing rack - - - - -	R-9	6	1	January 1940
Tires, spare, relocation - - - - -	R-9	3	7	Apr. 3, 1937
Tire wear - - - - -		2	4	Feb. 22, 1936
Toggle levers - - - - -	R-5	1	12	Oct. 19, 1935
Tool box, fire, rack for - - - - -	R-9	3	10	July 23, 1937
Tool box lid, safety device - - - -	R-8	6	11	December 1940
Tool box on truck - - - - -	R-9	5	8	October 1939
Tool box on truck - - - - -	R-9	4	19	Dec. 24, 1938
Tool, culvert cleaning - - - - -	R-7	3	5	Mar. 6, 1937
Tool for sharpening saw - - - - -	R-7	2	10	May 16, 1936
Tool grinder - - - - -	R-1	1	10	Sept. 21, 1935
Tool grinder guard - - - - -	R-8	4	18	Sept. 24, 1938

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Tool grinder guard - - - - -	R-8	4	12	June 25, 1938
Tool, hose clamp - - - - -		1	1	May 4, 1935
Tool house cabinet, removable - - -	R-9	6	1	January 1940
Tool, lineman's - - - - -	R-7	2	19	Oct. 17, 1936
Tool marking - - - - -	R-8	2	16	Sept. 5, 1936
Tool, marking, bolt hole - - - - -	R-5	3	19	Dec. 11, 1937
Tool rack - - - - -	R-7	5	7	Sept. 1939
Tool trailer - - - - -	R-9	6	6	June 1940
Tool, twisting, stubbing wire - - -	R-1	3	14	Sept. 25, 1937
Tooth replacement, sprocket - - -		3	12	Aug. 28, 1937
Top frames - - - - -	R-7	2	18	Oct. 3, 1936
Top, sand barrel - - - - -	R-7	4	5	Mar. 12, 1938
Tow bar for truck - - - - -	R-9	5	8	October 1939
Tow fitting, Dodge dump - - - - -	R-9	6	3	March 1940
Tower door, handle and lock - - -	R-9	6	2	February 1940
Tower erection - - - - -	R-6	5	6	August 1939
Tower leg clamp for telephones - - -	R-9	2	6	Mar. 21, 1936
Towers, wood, erection - - - - -	R-8	3	19	Dec. 11, 1937
Towing cable - - - - -	R-2	2	8	Apr. 18, 1936
Tracing table - - - - -	R-5	4	2	Jan. 22, 1938
Track links, rebuilding - - - - -	R-9	3	12	Aug. 28, 1937
Track rail rebuilding - - - - -	W.O.	2	11	May 30, 1936
Track roller guards, tractor - - -		3	12	Aug. 28, 1937
Track rollers, tractor rebuilding -	R-9	3	7	Apr. 3, 1937
Track rollers, tractor rebuilding -	R-9	4	7	Apr. 9, 1938
Tractor, air pipe and screen - - -	R-9	4	6	Mar. 26, 1938
Tractor boom - - - - -	R-6	3	18	Nov. 27, 1937
Tractor bushings and pins - - - -	R-8	2	2	Jan. 25, 1936
Tractor light guards - - - - -	R-6	2	6	Mar. 21, 1936
Tractor shop practice - - - - -	R-5	2	13	June 27, 1936
Tractor snowplow, cab - - - - -	R-7	3	12	Aug. 28, 1937
Tractor track links, rebuilding -	R-9	3	12	Aug. 28, 1937
Tractor track roller guards - - -		3	12	Aug. 28, 1937
Tractor, track rollers, rebuilding -	R-9	3	7	Apr. 3, 1937
Tractor, track rollers, rebuilding -	R-9	4	7	Apr. 9, 1938
Trailbuilder as snow plow - - - -	R-1	2	2	Jan. 25, 1936
Trailbuilder bumper guard - - - -	R-7	7	3	May 1941
Trailbuilder hoist control - - - -	R-7	4	5	Mar. 12, 1938
Trailbuilder hose breakage - - - -	R-1	1	14	Nov. 16, 1935
Trailbuilder oil pump - - - - -		4	4	Feb. 26, 1938
Trailbuilder, operation of tractor -	W.O.	6	11	December 1940
Trailbuilder repairs - - - - -	R-7	2	7	Apr. 4, 1936
Trailbuilder repairs - - - - -	R-7	2	8	Apr. 18, 1936
Trailer grader - - - - -	R-9	2	19	Oct. 17, 1936
Trailer, horse - - - - -	R-1	6	7	August 1940
Trailer, horse - - - - -	R-6	3	3	Feb. 6, 1937
Trailer, radio - - - - -	R-6	3	3	Feb. 6, 1937
Trailer, tool - - - - -	R-9	6	6	June 1940
Trailers, logging - - - - -	R-1	1	17	Dec. 28, 1935

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
Treating creosote burns - - - - -	R-8	1	9	Sept. 7, 1935
Treating drill bits - - - - -	R-1	2	2	Jan. 25, 1936
Tree cache shelter - - - - -	R-9	3	16	Oct. 23, 1937
Tree pusher - - - - -	R-1	1	9	Sept. 7, 1935
Trencher, fire line - - - - -	R-6	3	3	Feb. 6, 1937
Trip lever change on dumps - - - -	R-9	6	1	January 1940
Tripping device, dump trucks - - -	R-7	2	23	Dec. 12, 1936
Trolley for blacksmith shop - - - -	R-7	2	23	Dec. 12, 1936
Truck bodies, panel, dust proofing-	R-8	3	10	July 23, 1937
Truck chain tension - - - - -	R-9	3	10	July 23, 1937
Truck chain tighteners- - - - -	R-9	3	10	July 23, 1937
Truck chain tighteners - - - - -	R-1	4	8	Apr. 23, 1938
Truck, king pin lock bolt - - - -	R-7	3	6	March 20, 1937
Truck, Chevrolet, rack wrench - - -	R-7	3	12	Aug. 28, 1937
Truck covers - - - - -	R-6	3	3	Feb. 6, 1937
Truck covers, canvas - - - - -	R-10	3	12	Aug. 28, 1937
Truck cover frames - - - - -	R-9	2	7	Apr. 4, 1936
Truck crane, swing boom - - - - -	R-6	3	3	Feb. 6, 1937
Truck crank guide - - - - -	R-9	3	15	Oct. 9, 1937
Truck door repair - - - - -	R-9	3	17	Nov. 13, 1937
Truck dumping device - - - - -	R-1	2	22	Nov. 28, 1936
Truck frame bows - - - - -	R-6	4	1	Jan. 8, 1938
Truck, head gate opening - - - - -	R-5	3	12	Aug. 28, 1937
Truck, gas tank shield - - - - -		3	20	Dec. 25, 1937
Truck, pickup, cover - - - - -	R-9	3	17	Nov. 13, 1937
Truck, pickup, cover - - - - -	R-5	3	20	Dec. 25, 1937
Truck radiator, General Motors - -	R-9	3	7	Apr. 3, 1937
Truck rail bumper - - - - -	R-6	3	10	July 23, 1937
Truck reflector - - - - -	R-9	3	12	Aug. 28, 1937
Truck, Reo, differential housings -	R-7	3	12	Aug. 28, 1937
Truck, Reo, maintenance - - - - -	W.O.	4	2	Jan. 22, 1938
Truck, Reo, running board brace - -	R-7	3	14	Sept. 25, 1937
Truck seat, folding - - - - -	R-4	2	22	Nov. 28, 1936
Truck seats - - - - -	R-9	6	4	April 1940
Truck seats, bows, and steps - - -	SCS	5	7	September 1939
Truck seats - - - - -	R-7	2	16	Sept. 5, 1936
Truck, stake, ladder - - - - -	R-9	3	20	Dec. 25, 1937
Truck steps, safety - - - - -	SCS	2	12	June 13, 1936
Truck trail clearing - - - - -	R-5	4	4	Feb. 26, 1938
Truck trail construction - - - - -	R-6	4	3	Feb. 12, 1938
Truck trail location - - - - -	W.O.	1	5	July 15, 1935
Truck universal joint - - - - -		3	4	Feb. 20, 1937
Truck water keg - - - - -	R-8	1	9	Sept. 7, 1935
Truing grindstones - - - - -	R-2	2	3	Feb. 8, 1936

	<u>From</u>	<u>Vol.</u>	<u>No.</u>	<u>Date</u>
U-Bolt threader - - - - -	R-6	3	9	July 9, 1937
Universal joint assembly - - - - -		3	4	Feb. 20, 1937
Upholstery guard - - - - -	R-7	2	18	Oct. 3, 1936
Use of old grader blades - - - - -	R-9	2	6	Mar. 21, 1936
Valve lifter - - - - -	R-8	3	1	Jan. 9, 1937
Valve seat welding - - - - -	R-8	3	2	Jan. 23, 1937
Vibration of concrete - - - - -	W.O.	6	10	October 1940
Vibrator, concrete, shipping box -	R-6	7	1	January 1941
Vise for saw filing - - - - -	R-2	6	1	January 1940
Vise for saw filing - - - - -	R-6	5	6	August 1939
Voltage regulators - - - - -	W.O.	7	5	Sept. 1941
Walkway, safety, rope - - - - -	R-1	2	12	June 13, 1936
Wall knot - - - - -		1	6	July 27, 1935
Walls, foundation, frame buildings-	W.O.	5	9	November 1939
Warning sign - - - - -	R-6	4	5	Mar. 14, 1938
Washer, metal, for spring shackle -	R-7	7	3	May 1941
Washer, sand and gravel - - - - -	W.O.	6	10	October 1940
Water can anchoring on truck - - -	R-9	5	2	February 1939
Water can carrier on truck - - - -	R-9	5	3	May 1939
Water gate fence - - - - -	R-2	3	6	Mar. 20, 1937
Water hole gauge, circular - - - -	R-7	3	13	Sept. 11, 1937
Water measuring can - - - - -	SCS	3	10	July 23, 1937
Water level - - - - -	R-9	3	6	Mar. 20, 1937
Water proofing concrete - - - - -	W.O.	6	10	October 1940
Weavers knot - - - - -		1	4	June 29, 1935
Wheelbarrow, telephone reel - - - -	R-8	3	6	Mar. 20, 1937
Wheelbarrow snow runner - - - - -		3	12	Aug. 28, 1937
Window framing to prevent cracks- -	W.O.	6	9	Sept. 1940
Window sash, casement - - - - -	W.O.	6	4	April 1940
Windshield bracket, Chevrolet - - -		1	9	Sept. 7, 1935
Wire reel - - - - -	R-9	5	8	October 1939
Wire reel - - - - -	R-1	2	3	Feb. 8, 1936
Wire reel, blasting - - - - -	R-7	3	8	Apr. 7, 1937
Wire rope - - - - -		1	11	Oct. 5, 1935
Wire rope, lubricating - - - - -	R-6	5	8	October 1939
Wire, twisting tool - - - - -	R-1	3	14	Sept. 25, 1937
Wood posts, protection from decay -	W.O.	6	8	August 1940
Wood rasp - - - - -	R-9	3	9	July 9, 1937
Wood tower, erection - - - - -	R-8	3	19	Dec. 11, 1937
Work bench - - - - -		3	12	Aug. 28, 1937
Work floodlight - - - - -		3	12	Aug. 28, 1937
Work truck accessories - - - - -	R-9	5	8	October 1939
Wrench, Chevrolet rack - - - - -	R-7	3	12	Aug. 28, 1937

